1. What are Mutable and Immutable Data structures in Python ?
2. What are tuples ?
3. What is difference between tuple and list ? Where will you use tuple and where will you use list ?
4. What is Dynamic Typing ?
5. Justify this statement : Everything is object in Python ?
6. Python is Call by Value or Call by Reference ?
7. How do you create a dictionary which can preserve the order of pairs?
8. Can you use mutable Data Structure as key in Dictionaries ?
9. What is the use of enumerate() in Python?
10. What are \*args, \*\*kwargs ?
11. How instance variables are different from class variables?
12. Differentiate between “\*.py” file and “\*.pyc” file?
13. Explain difference between Map vs Reduce Vs Filter ?
14. What are Lamda Functions ?
15. What is List comprehension ?
16. What is \_\_init\_\_ functions ?
17. What are Generators ?
18. What are Iterators ?
19. Can generator be used to create Iterators ? Give example
20. Can iterators be used to create generator ?
21. Differentiate between Range and Xrange ?
22. What is Method Resolution Order ?
23. Python supports Multi-Level Inheritance or Multiple Inheritance or Both ?
24. Does Python supports multi-threading ?
25. What is multi-threading? What is GIL(Global interpreter lock) issue ?
26. What are decorator ? How to create custom decorator ?
27. How memory is managed in Python ?
28. How does Python's garbage collection work?
29. What are Regular Expressions ?
30. Differentiate between append() and extend() methods ?
31. What is Web Scraping? How do you achieve it in Python?
32. Explain the use “with” statement in python?
33. What are Middlewares ?
34. What is Monkey patching ? Give example ?
35. What's the difference between py2.x and py3.x ?
36. Give examples of Python Framework ?
37. What is the difference between deep and shallow copy?
38. Write a program to find out the name of an object in python.
39. How can the ternary operators be used in python?
40. What is the function of negative index?
41. Write a program to check whether the object is of a class or its subclass.
42. How are the functions help() and dir() different?
43. Which command do you use to exit help window or help command prompt?
44. Does the functions help() and dir() list the names of all the built-in functions and variables? If no, how would you list them?
45. Explain how Python does Compile-time and Run-time code checking?
46. Whenever Python exists whyall the memory does is not de-allocated / freed when Python exits?
47. What makes Python differ from other programming languages?
48. Python is interpreted and interactive. How?
49. What is the use of Python?
50. What is a board standard library of python?
51. What makes python portable?
52. How does it manage the memory?
53. What is pickling and unpickling?
54. How are arguments passed?
55. 19**.**What is python namespace?
56. What is PYTHONSTARTUP environment variable?
57. Name a module that is not included in python by default
58. What is [\_\_init\_\_.py](http://__init__.py/) used for?
59. When is pass used for?
60. What is a docstring?
61. What is list comprehension?
62. What is map?
63. What is the difference between a tuple and a list?
64. What would the following code yield?
65. Optimize these statements as a python programmer.
66. Write a program to print all the contents of a file
67. Explain delegation in Python
68. What is the function of “self”?
69. How is “self” explicitly defined in a method?
70. What is the use of join() for a string rather than list or tuple method?
71. What is the process of compilation and linking in python?

36., What is the procedure to extract values from the object used in python?

1. What are the steps required to make a script executable on Unix?
2. Explain Python’s zip() function.?
3. Explain Python’s pass by references Vs pass by value . (or) Explain about Python’s parameter passing mechanism?
4. As Everything in Python is an Object, Explain the characteristics of Python’s Objects.
5. Explain how to overload constructors or methods in Python
6. Which statement of Python is used whenever a statement is required syntactically but the program needs no action?
7. What is Web Scraping? How do you achieve it in Python?
8. What is a Python module?
9. Name the File-related modules in Python?
10. Name the File-related modules in Python?
11. Explain all the file processing modes supported by Python?
12. Is python a case sensitive language?
13. What are tuples in Python?
14. What is the difference between tuples and lists in Python?
15. What are python dictionaries?